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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/771,674	02/05/2004	Tomoyuki Ohzeki	FS-F03227-01	3597
37398 TAIYO CORPO	7590 11/15/2007 ORATION		EXAMINER	
401 HOLLAND LANE			CHEA, THORL	
#407 ALEXANDRIA	A, VA 22314		ART UNIT	PAPER NUMBER
	,		1795	
	•		MAIL DATE	DELIVERY MODE
			11/15/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

, , , , , , , , , , , , , , , , , , , 		Application No.	Applicant(s)				
Office Action Summary		10/771,674	OHZEKI ET AL.				
		Examiner	Art Unit				
		Thorl Chea	1795				
	The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address				
Period fo	• •	LIC OFT TO EVOIDE AMONTUL	C) OD THIRTY (20) DAVC				
WHIC - Exten after: - If NO - Failur Any re	DRTENED STATUTORY PERIOD FOR REPLY HEVER IS LONGER, FROM THE MAILING DASions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing d patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timulated and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. sely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 30 Oc	ctober 2007.					
2a)⊠	This action is FINAL . 2b) ☐ This action is non-final.						
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Dispositi	on of Claims						
4)🖂	4)⊠ Claim(s) <u>1-18</u> is/are pending in the application.						
4	4a) Of the above claim(s) is/are withdrawn from consideration.						
·	5) Claim(s) is/are allowed						
	Claim(s) <u>1-18</u> is/are rejected.						
•	Claim(s) is/are objected to.	r alaction requirement					
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) 🔲 -	The specification is objected to by the Examine	r.	<i>,</i> .				
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	nder 35 U.S.C. § 119		•				
•	•	priority under 35 H.S.C. & 119(a)	-(d) or (f)				
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:							
,	1.⊠ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
* 5	ee the attached detailed Office action for a list (of the certified copies not receive	a.				
Attachment							
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Linterview Summary Paper No(s)/Mail Da					
3) 🔲 Inform	nation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	5) Notice of Informal P 6) Other:					

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DETAILED ACTION

1. This office action is responsive to the communication on October 30, 2007; claims 1-18 are pending in this instant application.

- 2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on October 30, 2007 has been entered.
- 3. The objection to the specification stated in the Office Action on September 24, 2007 is withdrawn in view of the amendment on October 30, 2007.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-3, 6-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Okada et al (US Patent No. 6,120,983), Tzuzuki (US Patent No. 5,677,121), Siga et al (US Patent No. 4,332,889), Tsukada et al (US 2002/0058220A1), Winslow et al (US Patent No. 5,891,615) and Purol et al (US Patent No. 5,236,816).

Okada et al discloses a photothermographic material substantially as claimed. See the compound having adsorptive to silver halide and reducible group in columns 12-20, compounds 1 to 55; photosensitive silver halide in column 36, lines 3-35 including silver iodide or silver

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iodobromide having silver iodide content of 0.1 to 40 mole %; silver salt of an organic acid including silver behenate in column 37, lines 20-41; preferred polymer such as polyvinyl butyral in column 41, lines 13-30; the silver halide doped with iridium complex in column 36, lines 18-35. Tzusuki (US Patent No. 5,677,121) discloses non-photosensitive silver salt comprising silver salt of behenic acid from 35 to 90 mole % to provide a heat developable material with excellent storability to ordinary aging, excellent image storability, high sensitivity and low Dmax. See the disclosure in the abstract. Tsukada et al discloses a binder for a photothermographic material having glass transition temperature from -20 °C to 80 °C to provide a photothermographic material with good storability and good coating property. Winslow et al (US Patent No. 5,891,615) discloses a 3-pyrazolidones (phenidones) in column 16, lines 27 as reducing agent for organic silver salt and Purols et al (US patent No. 5,236,816) discloses the "penidones" as super-additive developing agent for silver ions including the "1-phenyl-3-pyrazolidone). See column 15.

Okada et al disclose a material substantially as claimed. The material taught therein includes the silver salt of an organic acid include silver behenate, silver iodide or silver bromoiodide having iodide content up to 40 mole %, preferred binder such as polyvinyl butyral and the compound having a group adsorptive to silver halide and a reducible group. Okada my not specifically discloses the Tg of the binder and the 1-phenyl-3-pyrazolidone (Phenidones), but the polyvinyl butyral is the preferred binder and used in this present invention such as claimed in claim 8, and the "phenidones" has been known in Winslow et al and Purol as an equivalent functional group (reducing agent) for silver ion disclosed in Okada. The glass transition temperature of 45 deg. C is inherent to the polyvinyl butyal binder. Tsuzki discloses the

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optimized range of silver behenate in the silver salt of an organic acid within the claimed range to provide a photothermographic material with excellent storability to ordinary aging, excellent image storability, high sensitivity and low Dmax. Moreover, Tsukada et al discloses a binder for a photothermographic material having glass transition temperature from -20 °C to 80 °C to provide a photothermographic material with good storability and good coating property. Therefore, it would have been obvious at the time the invention was made to optimize the amount of silver behenate such as taught in Tsuzuki in combination with the preferred binder included polyvinyl butyral taught in Okada or in Tsukada et al to form a material taught in Okada in combination with the use of a known equivalent reducing for silver ions taught in either Winslow et al or Purols with an expectation of achieving a material with excellent storability to ordinary aging, excellent image storability, high sensitivity, low Dmax and good coating property, and thereby provide a material as claimed.

6. Claims 4-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Okada et al (US Patent No. 6,120,983), Tzuzuki (US Patent No. 5,677,121), Tsukada et al (US 2002/0058220A1), Winslow et al (US Patent No. 5,891,615) and Purol et al (US Patent No. 5,236,816). as applied to claims 1-3, 6-8 above, and further in view of Siga et al (US Patent No. 4,332,889).

Siga disclose in column 6, lines 43-68 disclose the relative amount of the silver iodide with respect to silver bromide to satisfy the sensitivity condition and storage condition. It is disclosed that "from the view point of sensitivity of image forming material, the silver halide is desired to contains, beside silver iodide, at least 2 mole %, based on silver halide component, silver bromide and/or silver chloride, although the silver halide may include only silver iodide, i.e. 100

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mole % of silver iodide. Furthermore, from viewpoint of stability of the raw image forming material, it is desired that silver halide component contains, besides silver iodide, silver bromide than silver chloride. Therefore, the most preferred silver halide component consists of silver iodide and silver bromide. In this case, silver iodide and silver bromide may be provided in either a mixture thereof or mixed crystals thereof. The molar ratio of silver iodide to silver bromide may be preferably 30/70 to 98/2, more preferably 50/50 to 95/5." It would have been obvious to the worker of ordinary skill in the art at the time the invention was made to use silver halide having iodide and bromide taught in Siga to optimize the sensitivity and the storability of the material of Okada et al, and thereby provide a material as claimed.

7. Claims 9-11, 15-18 rejected under 35 U.S.C. 103(a) as obvious over the combination of Okada et al (US Patent No. 6,120,983), Winslow et al (US Patent No. 5,891,615) and Purol et al (US Patent No. 5,236,816).

See Okada et al which discloses compound having adsorptive to silver halide and reducible group in columns 12-20, compounds 1 to 55; photosensitive silver halide in column 36, lines 3-35 including silver iodide or silver iodobromide having silver iodide content of 0.1 to 40 mole %; silver salt of an organic acid including silver behenate in column 37, lines 20-41; preferred polymer such as polyvinyl butyral in column 41, lines 13-30; the silver halide doped a metal complex including with an amount of 1×10^{-9} to 1×10^{-2} mole/mole of silver including iridium complex in column 36, lines 3-35. Okada discloses a photothermographic material substantially as claimed which includes a compound having adsorptive to silver halide and reducible group, a photosensitive silver halide, an organic silver salt, a reducing agent, binder and the iridium, except the 1-phenyl-3-pyrazolidone (Phenidones) which has been known in

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Winslow et al and Pural. The 1-phenyl-3-pyrazolidone (Phenidones) have been known in the art

has an equivalent function as reducing agent for silver ions taught in Okada et al. Therefore, it

would have been obvious to the worker of ordinary skill in the art at the time the invention was

made to use a known equivalent reducing agent group as the reducible group taught in Okada et

al with an expectation of achieving good silver image, and thereby provide a material as claimed.

8. Claims 12 -14, 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Okada et al (US Patent No. 6,120,983) as applied to claims 9-13, 15-18 above, and further in

view of Kimura (US 6,413,711), Goto et al (US 2003/0194638) and .

Okada et al fails to disclose the compound in claims 12-13 and the spectral sensitizing dye in

claim 14, but these compounds has been known in Goto et al (US 2003/0194638), Ohzeki (US

2002/0197570) and Kimura (US 6,413,711). See Goto pages 1-3; Ohzeki in the abstract and

spectral sensitizing dye, compound (2a) to (2d) in the abstract. It would have been obvious to

the worker of ordinary skill in the art to use the compound taught either in Goto or Ohzeki in the

material of Okada et al to increase the sensitivity thereof and the use of the infrared spectral

sensitizing dye taught in Kimura to spectrally sensitize the material of Okada in the infrared

region, and thereby provide a material as claimed.

Response to Arguments

9. Applicant's arguments filed October 30, 2007 have been fully considered but they are not

persuasive for same reason disclosed in the Final Office Action on September 24, 2007. The

applicants argue that Winslow or Purol, 3-pyrazolidone/phenidone is an independent molecule

which is in contrast in contrast with the compound having an adsorptive group to silver halide

and a reducing group in the present invention has 3-pyrazolidone group as part of a molecule.

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Okada does not disclose a compound having a 3-pyrazolidone group as an electron donative group.

The argument is not persuasive since Okada et al discloses the compound having an adsorptive group to silver halide and a reducing group as part of a molecule. They may not discloses the 3pyrazolidone group such as presented in the argument, but the 3-pyrazolidone group has been known as an equivalent to the reducing group taught in Okada et al. It would have been obvious to the worker of ordinary skill in the art at the time the invention was made to use a known group such as 3-pyrazolidone group equivalent to those taught in Okada et al with an expectation of producing similar results. Counsel's arguments cannot take the place of evidence. In re Greenfield, 571 F. 2d 1185, 197 USPQ 227 (CCPA 1978).

The argument with respect to the unexpected results is not persuasive since the unexpected results stated in the argument are based on the Counsels' assertion. The applicants argued that "a Declaration under 37 CFR 1,132 is being submitted". However, the Declaration being mentioned has not been received. The argument with the respect to results shown in the specification is not persuasive. There is no showing in the specification, the compound contains 3-pyrazolidone group provide a better results than that containing the other reducing group taught in Okada et al. There are no unexpected results found on page 228, lines 15-19, pages 249, lines 6-13 or page 259, lines 11-14. Moreover, the specification considered as a whole fail to recognize whether the 3-pyrazolidone group provide an unexpected results over the group taught in Okada et al.

Conclusion

This is a continuation of applicant's earlier Application No. 10/771,674. All claims are 10. drawn to the same invention claimed in the earlier application and could have been finally rejected on the grounds and art of record in the next Office action if they had been entered in the earlier application. Accordingly, THIS ACTION IS MADE FINAL even though it is a first action in this case. See MPEP § 706.07(b). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no, however, event will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the 11. examiner should be directed to Thorl Chea whose telephone number is (571) 272-1328. The examiner can normally be reached on 9 AM-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia H. Kelly can be reached on (571)272-1526. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tch 10h 2007-02-14

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Thorl Chea Primary Examiner Art Unit 1795